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IN THE CLAIMS

Please cancel originally filed claims 1-10.

Please enter new claims 11-27 as follows:

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11. (New) A micro-dialysis probe which includes a supply line and a drainage line for a drip-feed solution and a dialysis section, wherein the flow channel for the drip-feed solution experiences an inversion in the area of the dialysis section between the supply line and the drainage line, wherein both said supply line and said drainage line are arranged as separate hollow channels on the outer wall of said probe, side by side, in parallel.
12. (New) The micro-dialysis probe as set forth in claim 11, wherein said supply line and said drainage line have a substantially linear course.
13. (New) The micro-dialysis probe as set forth in claim 11, wherein a first section of said drainage line in the direction of the flow consists of a dialysis hollow fibre penetrating into said supply line behind said inversion, said hollow fibre being fastened in the area of the sealed tip of said probe such that a linear course of flow is achieved after said inversion, while at its other end it is sealed into a second stable tube of the drainage line.
14. (New) The micro-dialysis probe as set forth in claim 13, wherein the part of said tube in the area of said tip of said probe which lies over said hollow fibre forms a supporting section.
15. (New) The micro-dialysis probe as set forth in claim 13, wherein said hollow fibre is formed to be replaceable and is sealed in said tube, in particular in said supporting section which comprises recesses via which said hollow fibre is exposed outwards.
16. (New) The micro-dialysis probe as set forth in claim 11, wherein the flow channel for said drip-feed solution consists of a hollow fibre with a supporting profile, which separates

said supply line and said drainage line from each other, said supporting profile comprising overflow openings in the area of flow inversion.

17. (New) The micro-dialysis probe as set forth in claim 16, wherein said hollow fibre, at the supply line end and drainage line end of said probe is sealed into a probe shaft which accommodates and continues said supply line and said drainage line separately.
18. (New) The micro-dialysis probe as set forth in claim 16, wherein said profile is star-shaped.
19. (New) The micro-dialysis probe as set forth in claim 16, wherein said profile is star-shaped, as one of a three-armed star and a four-armed star.
20. (New) The micro-dialysis probe as set forth in claim 16, wherein said profile flat.
21. (New) The micro-dialysis probe as set forth in claim 20, wherein said profile comprises bristles or knobs on at least one of its flat sides to support said hollow fibre.
22. (New) The micro-dialysis probe as set forth in claim 21, wherein said supply line and said drainage line have a substantially linear course.
23. (New) A micro-dialysis probe comprising a supply line and a drainage line for providing a flow channel for a drip-feed solution, wherein said supply line and said drainage line are arranged as separate, generally side by side and parallel hollow channels on a wall of said probe.
24. (New) The micro-dialysis probe as set forth in claim 23, further comprising a dialysis section, wherein the flow channel for the drip-feed solution experiences an inversion in the area of the dialysis section between the supply line and the drainage line.